

AD-A137 318

19319A MLRS MISSILE NUMBERS 358 354 349 345 340 336
ROUND NUMBERS 534/DL-... (U) ARMY ELECTRONICS RESEARCH
AND DEVELOPMENT COMMAND WSMR NM ATM... D C KELLER
NOV 83 ERADCOM/ASL-DR-1329

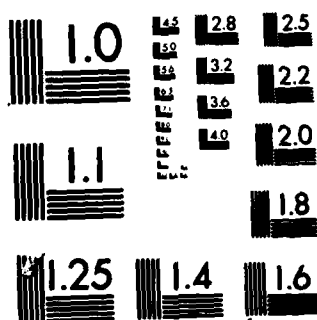
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

AD A 137318



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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 19319A MLRS, Missile Number 358, 354, 349, 345, 340, 336, Round Number 534/DL-49 THRU 539/DL-54 are presented in tabular form. ↑		

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INTRODUCTION

19319A MLRS, Missile Numbers 358, 354, 349, 345, 340, and 336, Round Numbers 534/DL-49 Thru 539/DL-54, were launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1543:05, 1543:09, 1543:14, 1543:18, 1543:23, and 1543:27 MST, 18 November 1983. The scheduled launch times were 1515 MST at a 4.5 second separation.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from pilot-balloon observations at:

SITE AND ALTITUDE

LC-33	2 Km
Don	2 Km

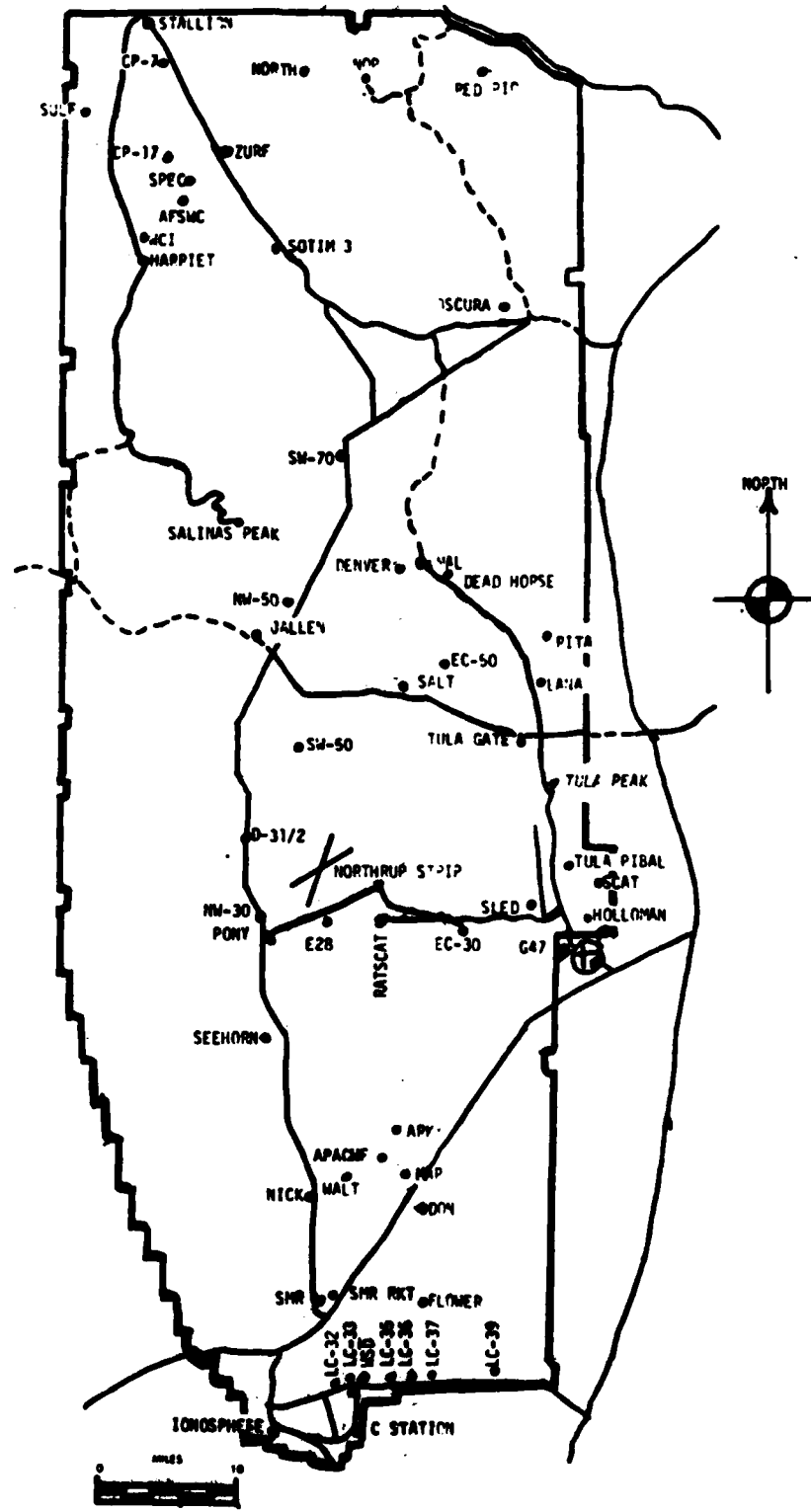
(2) Air structure data (rawinsonde) were collected at the following Met sites.

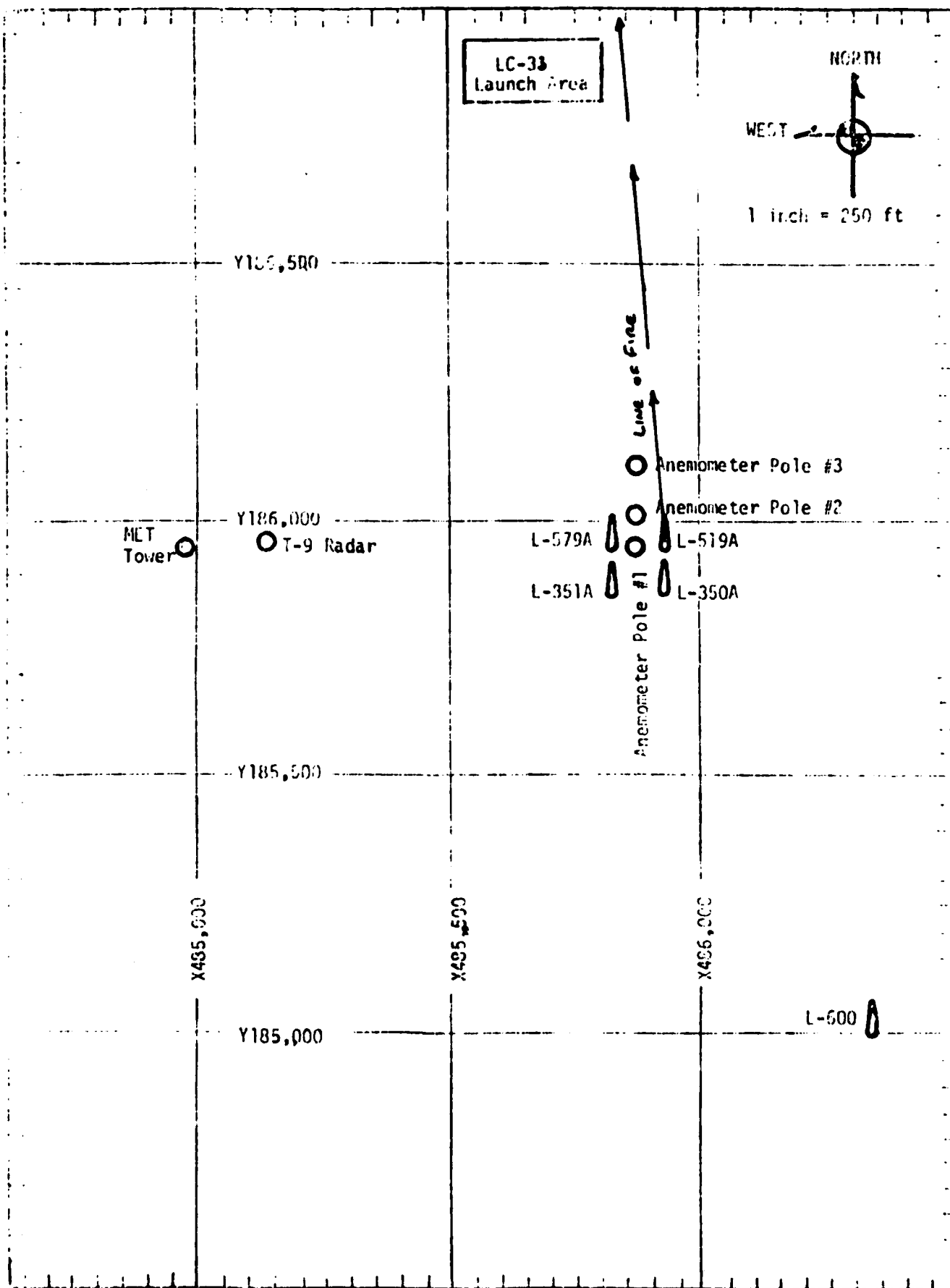
SITE AND TIME

WSD	1415 MST
LC-37	1415 MST
WSD	1543 MST

Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By _____	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A-1	

WSMR METEOROLOGICAL SITES





LC-33

$\hat{y} = 484.982.73$ $\hat{y} = 485.957.73$ $\hat{y} = 485.957.73$ $\hat{y} = 485.957.73$

$\hat{y} = 484.982.73$ $\hat{y} = 485.957.73$ $\hat{y} = 485.957.73$ $\hat{y} = 485.957.73$

$\hat{y} = 484.982.73$ $\hat{y} = 485.957.73$ $\hat{y} = 485.957.73$ $\hat{y} = 485.957.73$

[illegible]

TIME:	MST	1945	
DRY BULB TEMP.		16.6	
WET BULB TEMP.		9.6	
WET BULB DEPR.		7.0	
DEW POINT		3.7	
RELATIVE HUMID.		42	

TABLE 2

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 18 November 1983

SITE: LC-33

TIME: 1603 MST

WSTM COORDINATES:

X= 486,872.00

Y= 184,146.75

H= 3,981.15

SITE: Don

TIME 1546 MST

WSTM COORDINATES:

X= 511,988.37

Y= 247,396.36

H= 3,996.83

LAYER MIDPOINT	DIRECTION	SPEED
METERS AGL	DEGREES	KNOTS
SURFACE	260	30
150	267	32
210	279	35
270	270	36
330	269	35
390	271	37
500	273	33
650	272	37
800	272	39
950	270	39
1150	274	39
1350	277	43
1550	272	44
1750	265	48
2000	260	55

LAYER MIDPOINT	DIRECTION	SPEED
METERS AGL	DEGREES	KNOTS
SURFACE	240	14
150	263	20
210	266	34
270	266	36
330	265	33
390	271	27
500	264	23
650	257	25
800	264	32
950	263	36
1150	268	34
1350	271	41
1550	265	40
1750	262	46
2000	263	57

AIMING COMPUTER MET MESSAGE DATA

18 November 1983

WSD 1415 MST

METCM1324064

182130122866

00462030 29250864

01478047 29110854

02482045 28860829

03491045 28510791

04473052 28040744

05471051 27550700

06461058 27130658

07461051 26700617

08469050 26230579

09480056 25930542

LC-37 1415 MST

METCM1324063

182130124864

00480030 29350866

01477033 29200856

02459043 28900831

03476047 28510793

04473047 28020746

05464057 27590702

06463049 27010659

07470054 26790619

08478057 26390581

09477051 25960544

STATION ALTITUDE 3989.00 FT. I MSL
 18 NOV. 83
 ASCENSION NO. 375

SIGNIFICANT LEVEL DATA
 3220020575
 WHITE SANDS
 TABLE 4

PRESSURE	GEOMETRIC	TEMPERATURE	REL. HUM.
ALTITUDE	ALTITUDE	AIR DEWPOINT	PERCENT
MILLIBARS	MSL FLEI	DEGREES	CENTIGRADE
866.0	3989.0	19.3	35.0
863.9	4057.5	19.6	27.0
857.0	4513.3	16.8	32.0
807.5	5037.9	12.8	30.0
758.1	7663.4	7.6	32.0
719.0	9057.4	3.5	63.0
700.0	9799.6	1.9	53.0
641.1	10130.7	1.5	53.0
635.5	12137.9	-3.9	54.0
632.8	12488.2	-4.6	52.0
626.5	12700.9	-5.4	63.0
610.7	13363.4	-6.0	49.0
600.9	13481.4	-6.5	45.0
582.5	14574.5	-9.3	55.0
540.4	16090.4	-13.4	34.0
531.7	16860.2	-14.9	39.0
507.0	18045.5	-17.7	50.0
		-25.6	

GEOMETRIC COORDINATES
32-40043 LAT DEG
106-37033 LONG DEG

UPPER AIR DATA
3220020075
WHITE SANDS

TABLE 5

STATION ALTITUDE 3989.00 FEET MSL
10 NOV. 63
ASCENSION NO. 375

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPLD ¹ , F SOUND KNOTS	WIND DATA DIRECTION DEGREES (IN)	SPEED KNOTS	INDEX OF REFRACTION
3989.0	860.0	19.3	35.0	1028.0	667.4	270.0	38.1	1.000264
4000.0	855.7	19.3	33.7	1027.6	667.4	270.0	38.1	1.000263
4500.0	850.4	18.9	31.9	1018.7	664.4	269.0	39.6	1.000255
5000.0	835.2	15.4	-3	1005.5	662.7	268.1	41.1	1.000251
5500.0	820.3	14.0	-7	992.5	661.1	267.2	42.6	1.000248
6000.0	805.7	12.6	-1.1	979.6	659.4	266.4	44.1	1.000244
6500.0	791.1	11.1	-1.1	966.9	657.7	266.6	46.9	1.000242
7000.0	776.7	9.6	-1.3	954.4	656.0	266.6	48.1	1.000239
7500.0	762.6	8.1	-1.3	942.1	654.2	266.3	46.9	1.000236
8000.0	748.7	6.6	-1.9	929.8	652.5	266.9	47.3	1.000233
8500.0	734.9	5.1	-2.3	917.5	650.8	266.2	48.1	1.000230
9000.0	721.3	3.7	-2.8	905.4	649.0	264.3	52.4	1.000226
9500.0	707.9	2.3	-5.1	892.5	647.6	261.7	51.8	1.000220
10000.0	694.7	1.7	-6.9	878.9	646.5	259.5	51.3	1.000214
10500.0	681.6	.6	-7.8	865.8	645.2	259.5	52.4	1.000210
11000.0	668.8	-6	-8.9	853.3	643.7	259.9	53.6	1.000206
11500.0	656.1	-1.8	-10.0	841.1	642.2	260.6	54.9	1.000202
12000.0	643.7	-3.1	-11.1	829.1	640.7	261.9	56.0	1.000198
12500.0	631.3	-4.8	-12.6	818.6	638.7	263.4	57.0	1.000195
13000.0	619.4	-5.7	-12.9	805.8	637.8	265.0	55.8	1.000191
13500.0	607.3	-6.6	-16.4	793.3	636.3	266.6	54.0	1.000186
14000.0	595.7	-7.9	-16.5	781.5	634.8	268.1	52.2	1.000183
14500.0	584.2	-9.1	-16.8	770.0	633.4	268.5	50.3	1.000181
15000.0	572.8	-10.4	-18.7	758.8	631.7	268.9	48.5	1.000177
15500.0	561.3	-11.8	-21.2	747.9	630.0	269.0	48.8	1.000173
16000.0	550.3	-13.1	-23.8	737.1	628.4	268.5	52.1	1.000169
16500.0	539.6	-14.2	-25.1	725.5	627.1	268.1	54.4	1.000166
17000.0	528.9	-15.2	-25.7	713.9	625.8			1.000163
17500.0	518.3	-16.4	-25.5	702.9	624.4			1.000161
18000.0	507.9	-17.6	-25.0	692.0	623.0			1.000159

LABORATORY LEVELS
J2200205/5
WHITE SANDS
TABLE 6

GEONETIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

TABLE 6

PRESSURE MILLIBARS	TEMPUTNITAL FEET	TEMPERATURE		REL. HUMID. PERCENT	DIRECTION JFGKEES(TN)	SPEED KNOTS	WIND U ₁₀ 1A
		AIR DEGREES	DEWPOINT CENTIGRADE				
850.0	4510.	16.8	0	32.	269.0	39.6	
800.0	6100.	12.0	-1.1	40.	260.4	45.0	
750.0	7947.	6.8	-1.8	54.	260.8	47.2	
700.0	9700.	1.9	-6.6	53.	260.0	51.2	
650.0	11738.	-2.4	-10.5	54.	261.1	55.5	
600.0	13803.	-7.4	-16.4	40.	267.7	52.9	
550.0	16003.	-13.2	-24.0	40.	268.5	52.2	

STATION ALTITUDE 4051.37 FEET MSL
IN NOV. 63 1415 HRS MST
ASCENSION NO. 174

SIGNIFICANT LEVEL DATA
3220160174
LC-37

GEOMETRIC COORDINATES
32.40175 LAT DEG
106.31232 LON DEG

TABLE 7

PRESSURE GEOMETRIC MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
864.1	18.5	55.0
850.0	16.5	30.0
420.5	14.5	34.0
780.6	10.8	41.0
767.3	8.9	45.0
748.1	6.9	47.0
720.5	5.1	53.0
700.0	1.3	63.0
687.3	.3	65.0
654.5	-2.8	74.0
637.7	-4.7	73.0
620.1	-6.3	68.0
611.9	-7.1	71.0
594.5	-9.2	69.0
571.0	-12.2	98.0
550.5	-13.7	98.0
544.1	-13.6	98.0
527.5	-15.5	98.0
524.4	-16.7	98.0
516.5	-17.4	64.0
511.7	-18.3	35.0
500.0	-18.9	30.0

STATION ALTITUDE 4051.77 FEET MSL
 IN NOV. 83 1415 HRS MST
 ASCENSION NO. 174

UPPER AIR DATA
 3200100174
 LC-37
 TABLE 8

GEODETIC COORDINATES
 32°40'17.5" LAT DEG
 196°31'23.2" LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE C	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KI/MS	WIND DATA DIRECTION (TH) DEGREES	SPEED KI/MS	INDEX OF REFRACTION
4051.4	860.1	18.5	35.0	1020.8	060.4	200.0	20.9	1.000262
4500.0	850.0	16.6	30.1	1020.0	66.3.9	204.1	32.1	1.000253
5000.0	835.0	15.3	32.4	1006.2	66.2.5	204.0	34.8	1.000250
5500.0	820.3	14.0	34.9	992.6	66.1.0	211.3	37.6	1.000247
6000.0	805.6	12.6	37.5	979.5	65.9.4	214.2	40.5	1.000244
6500.0	791.1	11.2	40.2	966.0	65.7.8	213.6	43.5	1.000240
7000.0	776.8	9.8	43.0	953.8	65.6.2	211.0	46.7	1.000237
7500.0	762.7	8.4	45.5	941.2	65.4.5	208.6	49.5	1.000234
8000.0	748.7	7.0	46.9	928.9	65.2.8	205.1	49.7	1.000230
8500.0	734.9	5.6	51.2	916.2	65.1.3	203.8	40.6	1.000227
9000.0	721.3	4.1	55.7	904.3	64.9.4	202.0	48.7	1.000224
9500.0	707.9	2.5	60.3	893.1	64.7.4	202.2	51.0	1.000221
10000.0	694.7	1.0	63.6	880.8	64.5.8	201.6	53.4	1.000217
10500.0	681.7	.1	65.5	867.1	64.4.7	201.2	55.8	1.000214
11000.0	668.8	-1.3	69.6	855.2	64.3.0	200.8	58.2	1.000210
11500.0	656.2	-2.7	73.8	843.5	64.1.3	200.5	60.0	1.000207
12000.0	643.7	-4.1	73.3	831.7	63.9.7	200.2	60.0	1.000203
12500.0	631.4	-5.3	71.2	819.6	63.8.2	200.0	60.0	1.000198
13000.0	619.3	-6.4	68.3	807.4	63.6.8	200.0	55.8	1.000194
13500.0	607.3	-7.6	75.7	795.6	63.5.3	200.0	50.7	1.000191
14000.0	595.5	-9.1	87.9	784.3	63.3.6	200.0	45.0	1.000189
14500.0	583.9	-10.7	93.6	773.9	63.1.0	200.0	40.0	1.000186
15000.0	572.5	-12.3	98.0	763.3	62.9.7	200.0	44.5	1.000183
15500.0	561.2	-13.5	98.0	750.4	62.8.8	200.0	50.3	1.000179
16000.0	550.1	-13.7	98.0	737.6	62.8.0	200.0	65.0	1.000176
16500.0	539.2	-14.2	98.0	724.2	62.7.4	200.0	66.6	1.000173
17000.0	528.3	-15.4	98.0	713.3	62.5.9	211.4	57.7	1.000169
17500.0	517.9	-17.6	70.2	705.5	62.3.0	210.4	62.0	1.000163
18000.0	507.3	-18.5	33.2	694.0	62.1.0			1.000157

STATION ALTITUDE 4051.37 FEET MSL
 18 NOV. 83
 ASCENSION NO. 174

MANDATORY LEVELS
 320180174
 LC-37

GEODETIC COORDINATES
 39.40175 LAT DEG
 106.31234 LONG DEG

TABLE 9

PRESSURE GEOPOTENTIAL MILLIBARS	FEET	TEMPERATURE		REL. HUMID. PERCENT	WIND DATA	
		AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES (TN)	SPEED KNOTS
250.0	4509.	16.5	-1.1	30.	264.2	32.2
300.0	6189.	12.1	-1.6	39.	275.2	41.6
350.0	7947.	7.1	-3.5	47.	280.9	49.7
400.0	9701.	1.3	-5.0	63.	282.4	50.1
450.0	11725.	-3.4	-7.4	74.	280.7	59.4
500.0	13774.	-8.5	-10.8	83.	259.5	47.3
550.0	15985.	-13.7	-13.9	98.	268.3	64.9
600.0	18319.	-18.9	-32.1	30.		

GEOLYTIC COORDINATES
 52-40045 LAT DEG
 106-37033 LONG DEG

SIGNIFICANT LEVEL DATA
 1220020576
 WHITE SANDS
 TABLE 10

STATION ALTITUDE 3049.00 FEET MSL
 IN NOV. 63 1547 HRC MST
 ASCENSION NO. 576

PRESSURE MILLIBARS	GEOPHYSICAL ALTITUDE FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
600.3	3989.0	17.4	2.2
854.6	4383.7	15.7	1.4
650.7	4519.5	15.5	1.3
850.7	4624.4	14.1	.7
776.2	7015.8	8.2	-1.1
749.1	7075.2	5.2	-1.9
730.3	8030.7	3.5	-2.4
720.7	8670.9	3.3	-2.6
700.0	9779.3	.3	-2.6
680.2	10534.1	-1.3	-5.9
670.1	10803.8	-2.2	-4.7
655.4	11503.0	-3.4	-6.7
653.6	11575.3	-3.7	-7.6
626.2	12683.1	-6.3	-8.6
600.3	13427.2	-8.1	-8.2
574.1	14002.5	-9.6	-9.7
571.5	15017.8	-9.9	-10.2
561.7	15465.2	-12.3	-12.5
555.5	15687.4	-13.9	-22.3
547.9	16075.0	-15.8	-30.1
531.5	16820.9	-16.8	-30.0
500.0	18328.7	-19.2	-31.0
			36.0
			38.0
			30.0
			40.0
			52.0
			60.0
			65.0
			65.0
			81.0
			71.0
			83.0
			78.0
			74.0
			98.0
			99.0
			99.0
			98.0
			98.0
			49.0
			28.0
			29.0
			34.0

STATION ALTITUDE 3989.00 FEET SL
18 NOV. 83
ASCENSION NO. 5/6

UPPER AIR DATA
322020576
WHITE SANDS
TABLE 11

GEODETIC COORDINATES
32-40043 LAT DEG
106-37033 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	WET-BULB TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
3989.0	860.5	17.4	2.2	36.0	1035.4	665.1	270.0	20.0	1.000263
4000.0	860.0	17.4	2.2	36.1	1035.2	665.0	269.9	20.1	1.000263
4500.0	850.5	15.5	1.5	38.0	1023.4	662.9	268.0	26.4	1.000259
5000.0	835.4	13.9	.7	40.4	1010.9	661.0	268.6	32.6	1.000255
5500.0	820.5	12.5	.4	43.3	997.6	659.4	266.0	38.8	1.000251
6000.0	805.5	11.1	-.0	46.2	984.5	657.7	264.6	39.9	1.000248
6500.0	790.9	9.7	-.5	49.0	971.5	656.1	264.6	41.8	1.000244
7000.0	776.6	8.2	-1.0	51.9	958.8	654.4	266.6	44.5	1.000241
7500.0	762.4	6.7	-1.4	56.0	946.5	652.6	270.9	45.0	1.000237
8000.0	748.4	5.1	-1.9	60.3	934.5	650.7	274.9	44.7	1.000234
8500.0	734.6	3.4	-2.5	65.0	922.7	648.8	276.9	42.0	1.000231
9000.0	720.9	2.0	-2.5	69.7	908.9	647.0	278.1	39.4	1.000228
9500.0	707.4	1.1	-2.5	76.9	896.3	646.0	275.7	37.2	1.000225
10000.0	694.2	-.2	-3.5	78.1	883.6	644.5	272.4	38.8	1.000221
10500.0	681.1	-1.2	-5.7	71.5	870.6	643.1	269.5	42.6	1.000214
11000.0	668.2	-2.5	-5.2	81.6	858.1	641.6	267.6	45.0	1.000213
11500.0	655.5	-3.4	-6.7	78.0	844.7	640.5	266.2	43.2	1.000208
12000.0	643.0	-4.7	-7.1	83.2	832.6	639.0	264.5	41.6	1.000204
12500.0	630.6	-5.9	-6.7	94.0	820.1	637.6	261.2	44.8	1.000202
13000.0	618.5	-7.1	-7.3	98.4	808.0	636.2	258.7	47.4	1.000199
13500.0	606.6	-8.2	-8.3	99.0	795.8	634.8	258.3	46.4	1.000195
14000.0	594.8	-8.7	-8.8	99.0	781.9	634.2	257.8	45.4	1.000191
14500.0	583.2	-9.2	-7.3	98.0	768.2	633.6	259.3	46.1	1.000188
15000.0	571.9	-9.9	-10.1	98.2	755.3	632.7	263.6	49.8	1.000184
15500.0	560.7	-13.0	-16.1	77.5	749.8	628.8	266.6	58.2	1.000177
16000.0	549.6	-15.4	-28.3	32.1	742.6	625.5	267.7	74.6	1.000169
16500.0	538.6	-16.4	-30.3	28.6	730.4	624.4	268.3	74.6	1.000165
17000.0	527.8	-17.1	-30.6	29.6	717.7	623.5			1.000163
17500.0	517.1	-17.9	-30.7	31.2	705.5	622.5			1.000160
18000.0	506.7	-18.7	-30.9	32.9	693.5	621.6			1.000157

STATION ALTITUDE 3989.00 FEET MSL

18 NOV. 83

ASCENSION NO. 576

MANDATORY LEVELS

3220020576

WHITE SANDS

GEODETIC COORDINATES

12.40043 LAT DEG

106.37033 LONG DEG

TABLE 12

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE		REL. HUMIDITY PERCENT	WIND DATA	
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	4516.	15.5	1.3	38.	267.9	26.6
800.0	6188.	10.5	-2	47.	264.1	40.3
750.0	7936.	5.3	-1.9	60.	274.7	45.0
700.0	9770.	.3	-2.6	81.	274.1	30.9
650.0	11706.	-4.0	-7.4	77.	265.6	42.3
600.0	13762.	-8.5	-8.6	99.	258.0	45.8
550.0	15960.	-15.3	-27.9	33.	267.7	73.7
500.0	18304.	-19.2	-31.0	34.		

DATE
ILME